INFORMATION REPORT INFORMATION

CENTRAL INTELLIGENCE AGENCY

50X1-HUM

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50X1

COUNTRY USSR

REPORT

SUBJECT Characteristics of Soviet Crude Oil at Romashkino

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THIS IS UNEVALUATED INFORMATION. SOURCE GRADINGS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

1. Comment: reported Soviet negotiations with representatives of the Rheinische Stahlwerke and with representatives of the Lurgi firm for the delivery of two such plants. Each plant was to be capable of processing annually three million metric tons of crude oil. gave the characteristics of Soviet crude oil from Mukhanovo in connection with these negotiations. 50X1-HUM

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Subject: Composition and Characteristics of Crude Oil at Romashkino

1. The composition of the crude oil is as follows:

		Molecular weight percent	Weight percent
CO_2	(carbon dioxide)	0.23	0.05
CH_4	(methane)	0.25	0.02
C_2H_6	(ethane)	1.15	0.17
C_3H_8	(propane)	4.14	0.89
$i\text{-}C_4H_{10}$	(iso-butane)	0.95	0.27
$n\text{-}C_4H_{10}$	(normal butane)	3.60	1.02
$i\text{-}C_5H_{12}$	(iso-pentane)	2.16	0.76
$n\text{-}C_5H_{12}$	(normal pentane)	3.38	1.19
Residuals		76.04	88.74

2. The specific weight of the crude oil at 20 degrees Centigrade is 0.8736.

3. The viscosity of the dehydrated crude oil is as follows:

	Centi-Stoke
at 20 degrees Centigrade	21.6
at 50 degrees Centigrade	8.9

4. The specific weight of the ground water at 10 degrees Centigrade is 1.1771. Its mineralization amounts to 771.78 milligrams/equivalent at 100 grams water.

5. a. Solidification temperature of the crude oil — minus 38 degrees C

   b. Temperature of crude oil in winter — plus 10 degrees C

   c. Temperature of crude oil in summer — plus 20 degrees C

6. The fraction composition of the crude oil is as follows:

Centigrade	Percent
at 100	11
100-150	12
150-200	11